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CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1 – 30 (canceled)

Claim 31 (CANCEL) The method of claim 58, wherein the N-kinase is human N-kinase.

Claim 32 (Currently Amended) The method of claim 58, wherein the human N-kinase is a recombinantly produced N-kinase.

Claim 33 (Currently Amended) The method of claim 58 An in vitro method of identifying a compound that increases or decreases N-kinase dependent phosphorylation of a substrate comprising contacting N-kinase with a test compound and determining the ability of the test compound to increase or decrease N-kinase dependent phosphorylation of the substrate, wherein the N-kinase is bovine N-kinase.

Claim 34 (CANCEL) The method of claim 33, wherein the bovine N-kinase is purified from a bovine source.

Claim 35 (canceled)

Claim 36 (Currently Amended) The method of claim 30 58, wherein the test compound decreases human N-kinase dependent phosphorylation of the substrate.

Claim 37 (Currently Amended) The method of claim 30 58, wherein the test compound increases human N-kinase dependent phosphorylation of the substrate.

Claims 38 – 57 (canceled)

Claim 58 (Currently Amended) An *in vitro* method of identifying a compound that stimulates or inhibits axonal growth of a central nervous system neuron by increasing or decreasing increases or decreases human N-kinase dependent phosphorylation of a substrate comprising the steps of:

- a) contacting human N-kinase with a test compound; and
- b) determining the ability of the test compound to increase or decrease N-kinase dependent phosphorylation of the substrate, selecting a test compound that increases or decreases N-kinase dependent phosphorylation of a substrate;
- c) contacting a central nervous system neuron, in vitro, with said selected test compound; and
- d) identifying a compound that stimulates or inhibits axonal outgrowth of the central nervous system neuron.